SEQUENCE LISTING

- (i) APPLICANT: Yu, Guo-Liang
 Ni, Jian
 Dixit, Vishva
 Gentz, Reiner L.
 Dillon, Patrick J.
- (ii) TITLE OF INVENTION: Death Domain Containing Receptors
- (iii) NUMBER OF SEQUENCES: 17
- (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: Sterne, Kessler, Goldstein & Fox, P.L.L.C.
 - (B) STREET: 1100 New York Ave., NW, Suite 600
 - (C) CITY: Washington
 - (D) STATE: DC
 - (E) COUNTRY: USA
 - (F) ZIP: 20005-3934
- (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Floppy disk
 - (B) COMPUTER: IBM PC compatible
 - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
- (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER: To Be Assigned
 - (B) FILING DATE: HEREWITH
 - (C) CLASSIFICATION:
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: Not Yet Assigned
 - (B) FILING DATE: 06-FEB-1997
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: US 60/028,711
 - (B) FILING DATE: 17-OCT-1996
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: US 60/013,285
 - (B) FILING DATE: 12-MAR-1996
- (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: Steffe, Eric K.
 - (B) REGISTRATION NUMBER: 36,688
 - (C) REFERENCE/DOCKET NUMBER: 1488.0310003/EKS/KRM
 - (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: 202-371-2600
 - (B) TELEFAX: 202-371-2540

(2) INFORMATION FOR SEQ ID NO:1:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1783 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: both
- (ii) MOLECULE TYPE: cDNA
- (ix) FEATURE:
 - (A) NAME/KEY: CDS
 - (B) LOCATION: 198..1481

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

CATGGGTGGG GGTGGGGGCG CTGCTGGATT CCTGCTCTGG TGGAGGGGAA ACTTGTGAGG	60
GGCTGGTAAG CGCCCCCTCC GAAGCCTGGT GTGTGCGCGG GGGGAAGGAA GTTAGTTTCC	120
TCTCCACCCA TGGGCACCCC TTCTGCCCGG GGCCTGGGAA GTGGGCTGCT CTGTGGGCAA	180
ATGCTGGGGC CTCTGAA ATG GAG GAG ACG CAG CAG GGA GAG GCC CCA CGT Met Glu Glu Thr Gln Gln Gly Glu Ala Pro Arg 1 5 10	230
GGG CAG CTG CGC GGA GAG TCA GCA GCA CCT GTC CCC CAG GCG CTC CTC Gly Gln Leu Arg Gly Glu Ser Ala Ala Pro Val Pro Gln Ala Leu Leu 15 20 25	278
CTG GTG CTG GGG GCC CGG GCC CAG GGC GGC ACT CGT AGC CCC AGG Leu Val Leu Gly Ala Arg Ala Gln Gly Gly Thr Arg Ser Pro Arg 30 35 40	326
TGT GAC TGT GCC GGT GAC TTC CAC AAG AAG ATT GGT CTG TTT TGT TGC Cys Asp Cys Ala Gly Asp Phe His Lys Lys Ile Gly Leu Phe Cys Cys 45	374
AGA GGC TGC CCA GCG GGG CAC TAC CTG AAG GCC CCT TGC ACG GAG CCC Arg Gly Cys Pro Ala Gly His Tyr Leu Lys Ala Pro Cys Thr Glu Pro 60 75	422
TGC GGC AAC TCC ACC TGC CTT GTG TGT CCC CAA GAC ACC TTC TTG GCC Cys Gly Asn Ser Thr Cys Leu Val Cys Pro Gln Asp Thr Phe Leu Ala 80 85 90	470
TGG GAG AAC CAC CAT AAT TCT GAA TGT GCC CGC TGC CAG GCC TGT GAT Trp Glu Asn His His Asn Ser Glu Cys Ala Arg Cys Gln Ala Cys Asp 95 100 105	518
GAG CAG GCC TCC CAG GTG GCG CTG GAG AAC TGT TCA GCA GTG GCC GAC Glu Gln Ala Ser Gln Val Ala Leu Glu Asn Cys Ser Ala Val Ala Asp 110	566

					AAG Lys											614
					TCA Ser 145											662
					CAC His											710
					CTG Leu											758
					AGC Ser											806
					AGG Arg											854
					CTC Leu 225											902
					CAC His											950
					CCA Pro											998
					CTA Leu											1046
					GGT Gly											1094
					CCG Pro 305											1142
					CCC Pro					Thr					Ser	1190
CCA Pro	GCC Ala	GGC Gly	TCG Ser 335	Pro	GCC Ala	ATG Met	ATG Met	CTG Leu 340	Gln	CCG Pro	GGC Gly	CCG Pro	CAG Gln 345	CTC Leu	TAC	1238

			GAC Asp													1286
			CTG Leu													1334
			CGA Arg													1382
			GCG Ala													1430
			GGC Gly 415													1478
CCG Pro	TGA	CACG	GCG (CCA	CTTG	CC AC	CCTAC	GCG(C TC	rggt(GGCC	CTT	GCAG!	AAG		1531
CCC	raag:	rac (GGTT	ACTT	AT G	CGTGT	ragao	CAT	rtta:	rgtc	ACT	TATT	AAG (CCGC:	rggcac	1591
GGC	CCTG	CGT I	AGCA	GCAC	CA G	CCGG	CCCC	A CCC	CCTG	CTCG	CCC	CTAT	CGC :	rcca(GCCAAG	1651
GCGI	AAGAI	AGC 2	ACGAZ	ACGA	AT G	rcgao	GAGG	G GG	rgaa(GACA	TTT	CTCA	ACT :	rctc(GCCGG	1711
AGT:	rtgg	CTG 2	AGAT	CGCG	ST A	TAAI	ATCTO	g TG	AAAG	AAAA	CAA	AACA	AAA (CAAA	AAAAA	1771
AAA	iaaa/	AAA	AA													1783

(2) INFORMATION FOR SEQ ID NO:2:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 428 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

Met Glu Glu Thr Gln Gln Gly Glu Ala Pro Arg Gly Gln Leu Arg Gly
1 5 10 15

Glu Ser Ala Ala Pro Val Pro Gln Ala Leu Leu Leu Val Leu Leu Gly
20 25 30

Ala Arg Ala Gln Gly Gly Thr Arg Ser Pro Arg Cys Asp Cys Ala Gly 35 40 45

Asp Phe His Lys Lys Ile Gly Leu Phe Cys Cys Arg Gly Cys Pro Ala 55 Gly His Tyr Leu Lys Ala Pro Cys Thr Glu Pro Cys Gly Asn Ser Thr Cys Leu Val Cys Pro Gln Asp Thr Phe Leu Ala Trp Glu Asn His His Asn Ser Glu Cys Ala Arq Cys Gln Ala Cys Asp Glu Gln Ala Ser Gln Val Ala Leu Glu Asn Cys Ser Ala Val Ala Asp Thr Arg Cys Gly Cys 120 Lys Pro Gly Trp Phe Val Glu Cys Gln Val Ser Gln Cys Val Ser Ser 135 140 Ser Pro Phe Tyr Cys Gln Pro Cys Leu Asp Cys Gly Ala Leu His Arg 150 His Thr Arg Leu Leu Cys Ser Arg Arg Asp Thr Asp Cys Gly Thr Cys 170 Leu Pro Gly Phe Tyr Glu His Gly Asp Gly Cys Val Ser Cys Pro Thr 180 185 Ser Thr Leu Gly Ser Cys Pro Glu Arg Cys Ala Ala Val Cys Gly Trp Arg Gln Met Phe Trp Val Gln Val Leu Leu Ala Gly Leu Val Val Pro 215 Leu Leu Gly Ala Thr Leu Thr Tyr Thr Tyr Arg His Cys Trp Pro 230 235 225 His Lys Pro Leu Val Thr Ala Asp Glu Ala Gly Met Glu Ala Leu Thr 250 Pro Pro Pro Ala Thr His Leu Ser Pro Leu Asp Ser Ala His Thr Leu 260 Leu Ala Pro Pro Asp Ser Ser Glu Lys Ile Cys Thr Val Gln Leu Val Gly Asn Ser Trp Thr Pro Gly Tyr Pro Glu Thr Gln Glu Ala Leu Cys 295 300 Pro Gln Val Thr Trp Ser Trp Asp Gln Leu Pro Ser Arg Ala Leu Gly 305 310 315 320 Pro Ala Ala Pro Thr Leu Ser Pro Glu Ser Pro Ala Gly Ser Pro 325 330 Ala Met Met Leu Gln Pro Gly Pro Gln Leu Tyr Asp Val Met Asp Ala

Val	Pro	Ala 355	Arg	Arg	Trp	Lys	Glu 360	Phe	Val	Arg	Thr	Leu 365	Gly	Leu	Arg	
Glu	Ala 370	Glu	Ile	Glu	Ala	Val 375	Glu	Val	Glu	Ile	Gly 380	Arg	Phe	Arg	Asp	
Gln 385	Gln	Tyr	Glu	Met	Leu 390	Lys	Arg	Trp	Arg	Gln 395	Gln	Gln	Pro	Ala	Gly 400	
Leu	Gly	Ala	Val	Tyr 405	Ala	Ala	Leu	Glu	Arg 410	Met	Gly	Leu	Asp	Gly 415	Cys	
Val	Glu	Asp	Leu 420	Arg	Ser	Arg	Leu	Gln 425	Arg	Gly	Pro					
(2)	INF	ORMA'	rion	FOR	SEQ	ID 1	10:3	:								
	(i)	(<i>I</i> (I	A) LE B) TY C) ST	ENGTI YPE : TRANI	HARAC H: 12 nucl DEDNI DGY:	254 l Leic ESS:	oase acio doul	pai:	rs							
	(ii)	MOI	LECUI	LE T	YPE:	CDNA	A									
	(ix)		4) NA	AME/I	KEY: ION:		1251									
	(xi)	SEÇ	QUENC	CE DI	ESCR	PTIC	ON: S	SEQ :	ID NO	0:3:						
	GAG Glu 430															48
	GTG Val															96
	GAC Asp															144
	ccc	TGC	CCA	GCG	GGG	CAC	TAC	CTG	AAG	GCC	CCT	TGC	ACG	GAG	CCC	192
Arg	Gly	Cys				His	Tyr	Leu 485	Lys	Ala	Pro	Cys	Thr 490	Glu	Pro	

	AAC Asn								288
	GCC Ala								336
	TGT Cys								384
	GTC Val								432
	CTG Leu 575								480
	GGG Gly								528
	TGC Cys								576
	TGT Cys								624
	GTG Val								672
	TGC Cys 655								720
	GCT Ala								768
	CAC His								816
	CAG Gln								864
	GCG Ala								912

-81-

			CCC Pro							960
			GCC Ala						-	1008
			GTC Val 770							1056
			GAG Glu							1104
			CAG Gln							1152
			CTC Leu							1200
			GTG Val							1248
CCG Pro 845	TGA									1254

(2) INFORMATION FOR SEQ ID NO:4:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 417 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

Met Glu Gln Arg Pro Arg Gly Cys Ala Ala Val Ala Ala Ala Leu Leu 1 5 10 15

Leu Val Leu Leu Gly Ala Arg Ala Gln Gly Gly Thr Arg Ser Pro Arg 20 25 30

Cys Asp Cys Ala Gly Asp Phe His Lys Lys Ile Gly Leu Phe Cys Cys 35 40 45

Arg Gly Cys Pro Ala Gly His Tyr Leu Lys Ala Pro Cys Thr Glu Pro 50 55 60

Cys Gly Asn Ser Thr Cys Leu Val Cys Pro Gln Asp Thr Phe Leu Ala Trp Glu Asn His His Asn Ser Glu Cys Ala Arg Cys Gln Ala Cys Asp Glu Gln Ala Ser Gln Val Ala Leu Glu Asn Cys Ser Ala Val Ala Asp Thr Arg Cys Gly Cys Lys Pro Gly Trp Phe Val Glu Cys Gln Val Ser Gln Cys Val Ser Ser Ser Pro Phe Tyr Cys Gln Pro Cys Leu Asp Cys 135 Gly Ala Leu His Arg His Thr Arg Leu Leu Cys Ser Arg Arg Asp Thr 150 Asp Cys Gly Thr Cys Leu Pro Gly Phe Tyr Glu His Gly Asp Gly Cys 165 Val Ser Cys Pro Thr Ser Thr Leu Gly Ser Cys Pro Glu Arg Cys Ala 185 Ala Val Cys Gly Trp Arg Gln Met Phe Trp Val Gln Val Leu Leu Ala 200 Gly Leu Val Val Pro Leu Leu Gly Ala Thr Leu Thr Tyr Thr Tyr 215 210 Arg His Cys Trp Pro His Lys Pro Leu Val Thr Ala Asp Glu Ala Gly 235 230 Met Glu Ala Leu Thr Pro Pro Pro Ala Thr His Leu Ser Pro Leu Asp 250 Ser Ala His Thr Leu Leu Ala Pro Pro Asp Ser Ser Glu Lys Ile Cys 265 Thr Val Gln Leu Val Gly Asn Ser Trp Thr Pro Gly Tyr Pro Glu Thr 280 285 Gln Glu Ala Leu Cys Pro Gln Val Thr Trp Ser Trp Asp Gln Leu Pro 290 Ser Arg Ala Leu Gly Pro Ala Ala Ala Pro Thr Leu Ser Pro Glu Ser 315 310 Pro Ala Gly Ser Pro Ala Met Met Leu Gln Pro Gly Pro Gln Leu Tyr Asp Val Met Asp Ala Val Pro Ala Arg Arg Trp Lys Glu Phe Val Arg 345 Thr Leu Gly Leu Arg Glu Ala Glu Ile Glu Ala Val Glu Val Glu Ile 355 360 365

Gly Arg Phe Arg Asp Gln Gln Tyr Glu Met Leu Lys Arg Trp Arg Gln 370 380

Gln Gln Pro Ala Gly Leu Gly Ala Val Tyr Ala Ala Leu Glu Arg Met 385 390 395 400

Gly Leu Asp Gly Cys Val Glu Asp Leu Arg Ser Arg Leu Gln Arg Gly
405 410 415

Pro

- (2) INFORMATION FOR SEQ ID NO:5:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 455 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: not relevant
 - (ii) MOLECULE TYPE: protein
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

Met Gly Leu Ser Thr Val Pro Asp Leu Leu Leu Pro Leu Val Leu Leu 1 5 10 15

Glu Leu Leu Val Gly Ile Tyr Pro Ser Gly Val Ile Gly Leu Val Pro 20 25 30

His Leu Gly Asp Arg Glu Lys Arg Asp Ser Val Cys Pro Gln Gly Lys 35 40 45

Tyr Ile His Pro Gln Asn Asn Ser Ile Cys Cys Thr Lys Cys His Lys
50 55 60

Gly Thr Tyr Leu Tyr Asn Asp Cys Pro Gly Pro Gly Gln Asp Thr Asp 65 70 75 80

Cys Arg Glu Cys Glu Ser Gly Ser Phe Thr Ala Ser Glu Asn His Leu 85 90 95

Arg His Cys Leu Ser Cys Ser Lys Cys Arg Lys Glu Met Gly Gln Val

Glu Ile Ser Ser Cys Thr Val Asp Arg Asp Thr Val Cys Gly Cys Arg 115 120 125

Lys Asn Gln Tyr Arg His Tyr Trp Ser Glu Asn Leu Phe Gln Cys Phe 130 135 140

Asn 145	Cys	Ser	Leu	Cys	Leu 150	Asn	Gly	Thr	Val	His 155	Leu	Ser	Cys	Gln	Glu 160
Lys	Gln	Asn	Thr	Val 165	Cys	Thr	Cys	His	Ala 170	Gly	Phe	Phe	Leu	Arg 175	Glu
Asn	Glu	Cys	Val 180	Ser	Cys	Ser	Asn	Cys 185	Lys	Lys	Ser	Leu	Glu 190	Cys	Thr
Lys	Leu	Cys 195	Leu	Pro	Gln	Ile	Glu 200	Asn	Val	Lys	Gly	Thr 205	Glu	Asp	Ser
Gly	Thr 210	Thr	Val	Leu	Leu	Pro 215	Leu	Val	Ile	Phe	Phe 220	Gly	Leu	Cys	Leu
Leu 225	Ser	Leu	Leu	Phe	Ile 230	Gly	Leu	Met	Tyr	Arg 235	Tyr	Gln	Arg	Trp	Lys 240
Ser	Lys	Leu	Tyr	Ser 245	Ile	Val	Cys	Gly	Lys 250	Ser	Thr	Pro	Glu	Lys 255	Glu
Gly	Glu	Leu	Glu 260	Gly	Thr	Thr	Thr	Lys 265	Pro	Leu	Ala	Pro	Asn 270	Pro	Ser
Phe	Ser	Pro 275	Thr	Pro	Gly	Phe	Thr 280	Pro	Thr	Leu	Gly	Phe 285	Ser	Pro	Val
Pro	Ser 290	Ser	Thr	Phe	Thr	Ser 295	Ser	Ser	Thr	Tyr	Thr 300	Pro	Gly	Asp	Cys
Pro 305	Asn	Phe	Ala	Ala	Pro 310	Arg	Arg	Glu	Val	Ala 315		Pro	Tyr	Gln	Gly 320
Ala	Asp	Pro	Ile	Leu 325		Thr	Ala	Leu	Ala 330		Asp	Pro	Ile	Pro 335	Asn
Pro	Leu	Gln	Lys 340	Trp	Glu	Asp	Ser	Ala 345		Lys	Pro	Gln	Ser 350	Leu	Asp
Thr	Asp	Asp 355	Pro	Ala	Thr	Leu	Tyr 360		. Val	. Val	Glu	Asn 365	Val	Pro	Pro
Leu	Arg 370		Lys	Glu	Phe	Val 375		Arg	Leu	ı Gly	7 Leu 380	Ser	Asp	His	Glu
Ile 385		Arg	, Leu	Glu	Leu 390		Asn	Gly	/ Arg	395	Leu S	Arg	Glu	. Ala	Gln 400
Туг	ser Ser	Met	: Leu	Ala 405		Trp	Arg	g Arg	410		r Pro	Arg	Arg	Glu 415	Ala
Thr	Leu	ı Glu	1 Leu 420		ı Gly	Arç	y Val	Let 425		g Asi	Met	: Asp	430	Leu	Gly
Суя	s Let	ı Glı	ı Asp	ıle	e Gli	ı Glu	ı Ala	a Lei	ı Cys	s Gl	y Pro	Ala	a Ala	Leu	Pro

435 440 445

Pro Ala Pro Ser Leu Leu Arg 450 455

(2) INFORMATION FOR SEQ ID NO:6:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 335 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: not relevant
- (ii) MOLECULE TYPE: protein
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:
- Met Leu Gly Ile Trp Thr Leu Leu Pro Leu Val Leu Thr Ser Val Ala
- Arg Leu Ser Ser Lys Ser Val Asn Ala Gln Val Thr Asp Ile Asn Ser 20 25 30
- Lys Gly Leu Glu Leu Arg Lys Thr Val Thr Thr Val Glu Thr Gln Asn 35 40 45
- Leu Glu Gly Leu His His Asp Gly Gln Phe Cys His Lys Pro Cys Pro
- Pro Gly Glu Arg Lys Ala Arg Asp Cys Thr Val Asn Gly Asp Glu Pro 65 70 75 80
- Asp Cys Val Pro Cys Gln Glu Gly Lys Glu Tyr Thr Asp Lys Ala His 85 90 95
- Phe Ser Ser Lys Cys Arg Arg Cys Arg Leu Cys Asp Glu Gly His Gly 100 105 110
- Leu Glu Val Glu Ile Asn Cys Thr Arg Thr Gln Asn Thr Lys Cys Arg
- Cys Lys Pro Asn Phe Phe Gln Asn Ser Thr Val Cys Glu His Cys Asp 130 135 140
- Pro Cys Thr Lys Cys Glu His Gly Ile Ile Lys Glu Cys Thr Leu Thr 145 150 155 160
- Ser Asn Thr Lys Cys Lys Glu Glu Gly Ser Arg Ser Asn Leu Gly Trp 165 170 175
- Leu Cys Leu Leu Leu Pro Ile Pro Leu Ile Val Trp Val Lys Arg 180 185 190

Lys	Glu	Val	Gln	Lys	Thr	Cys	Arg	Lys	His	Arg	Lys	Glu	Asn	Gln	Gly
		195					200					205			

Ser His Glu Ser Pro Thr Leu Asn Pro Glu Thr Val Ala Ile Asn Leu 210 215 220

Ser Asp Val Asp Leu Ser Lys Tyr Ile Thr Thr Ile Ala Gly Val Met 225 230 235

Thr Leu Ser Gln Val Lys Gly Phe Val Arg Lys Asn Gly Val Asn Glu 245 250 255

Ala Lys Ile Asp Glu Ile Lys Asn Asp Asn Val Gln Asp Thr Ala Glu 260 265 270

Gln Lys Val Gln Leu Leu Arg Asn Trp His Gln Leu His Gly Lys Lys 275 280 285

Glu Ala Tyr Asp Thr Leu Ile Lys Asp Leu Lys Lys Ala Asn Leu Cys 290 295 300

Thr Leu Ala Glu Lys Ile Gln Thr Ile Ile Leu Lys Asp Ile Thr Ser 305 310 315 320

Asp Ser Glu Asn Ser Asn Phe Arg Asn Glu Ile Gln Ser Leu Val 325 330 335

(2) INFORMATION FOR SEQ ID NO:7:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 23 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

GCGCCATGGG GGCCCGGCGG CAG

(2) INFORMATION FOR SEQ ID NO:8:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 30 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA

23

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:	
GCGAAGCTTC TAGGACCCAG AACATCTGCC	. 30
(2) INFORMATION FOR SEQ ID NO:9:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 33 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:	
CGCGGATCCG CCATCATGGA GGAGACGCAG CAG	33
(2) INFORMATION FOR SEQ ID NO:10:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 33 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:	
CGCGGATCCG CCATCATGGA GCAGCGGCCG CGG	33
(2) INFORMATION FOR SEQ ID NO:11:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:	

GCGTCTAGAT CAAAGCGTAG TCTGGGACGT CGTATGGGTA CGGGCCGCGC TGCA

(2) INFORMATION FOR SEQ ID NO:12:

(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 33 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:	
CGCGGATCCG CCATCATGGA GGAGACGCAG CAG	33
(2) INFORMATION FOR SEQ ID NO:13:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 33 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:	
CGCGGATCCG CCATCATGGA GCAGCGGCCG CGG	33
(2) INFORMATION FOR SEQ ID NO:14:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:	
CGCGGATCCT CACGGGCCGC GCTGCA	26
(2) INFORMATION FOR SEQ ID NO:15:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 33 base pairs	

	(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: cDNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:	
CGCG	GATCCG CCATCATGGA GGAGACGCAG CAG	33
(2)	INFORMATION FOR SEQ ID NO:16:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 33 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: cDNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:	
CGCG	GATCCG CCATCATGGA GCAGCGGCCG CGG	33
(2)	INFORMATION FOR SEQ ID NO:17:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 35 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: cDNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:	
GCGA	GATCTA GTCTGGACCC AGAACATCTG CCTCC	35